

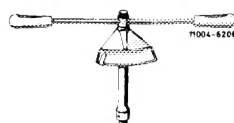
## 18–210 Removal and installation of oil pump

### Tightening torques

	Nm
Oil pump to cylinder crankcase and bearing cover	23
Oil pan lower part to top	10
Fuel pump to cylinder crankcase	23

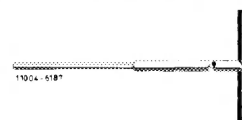
### Special tools

Torque wrench 3/8" square, 8–32 Nm



001 589 51 21 00

Screwdriver 5 mm, 300 mm long  
for hex. socket screws



116 589 02 07 00

### Note

In case that in an engine, instead of the oil pump with integrated oil relief valve (8 bar gauge pressure), an oil pump without oil relief valve is installed, the oil relief valve (5 bar gauge pressure), part No. 114 180 02 15, must be inserted into main oil duct in cylinder crankcase. Tightening torque for oil relief valve 40 Nm, for main oil duct-closing screw 70 Nm.

### Removal

- 1 Remove fuel pump.
- 2 Remove oil pan lower half.
- 3 Unscrew fastening screws of oil pump (arrows) and remove oil pump.

### Installation

- 4 For installation proceed vice versa. Install oil pan lower half with a new seal.
- 5 Tighten fastening screws for oil pump and fuel pump to 23 Nm, for oil pan lower half to 10 Nm.

